Please amend the claims;

Amend claim 1:

1. (Amended) In a power converter, comprising:

an input for accepting a DC voltage;

a power transformer including a primary and secondary winding;

a power switch for periodically connecting the input to the primary winding;

an output for accepting a load to be energized;

clamping means for limiting a voltage and extending the voltage's duration across the secondary winding at a substantially constant amplitude during substantially an entire extent of a [first] clamping interval of a cyclic period of the power converter;

a rectifier circuit connecting the secondary winding to the output; and including:

a synchronous rectification device with a control terminal connected to be responsive to a signal across the secondary winding such that the synchronous rectification device conducts a load current during substantially the entire extent of the [first] clamping interval; and

a [diode] rectifying device connected for enabling conduction of the load current during a second interval other than the [specified] clamping interval.

Amend claim 2:

2. (Amended) In a power converter, comprising

an input for accepting a DC voltage;

a power transformer including a primary and secondary winding;

a power switch for periodically connecting the input to the primary winding during a second interval of a cyclic period;

an output for accepting a load to be energized;

clamping means for limiting a voltage and extending the voltage's duration across the secondary winding at a substantially constant amplitude during substantially an entire extent of a [first] clamping interval of a cyclic period of the power converter;

a rectifier circuit connecting the secondary winding to the output; and including:

a first synchronous rectification device with a control terminal connected to be responsive to a signal across the secondary winding such that the synchronous rectification device conducts a load current during substantially the entire extent of

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the clamping [first] interval, and

a second synchronous rectification device with a control terminal connected to be responsive to a signal across the secondary winding such that the second synchronous rectification device conducts the load current during substantially an entire extent of the [a] second interval other than the clamping [first] interval.

Amend claim 5:

5. (Amended) A switching mode power converter, comprising:

a power transformer including a magnetizing inductance requiring periodic recycling;

a first power stage for converting a DC input into a periodic pulsed voltage applied to a primary winding of the transformer, including:

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a clamping circuit for limiting a voltage of the transformer during the periodic recycling at a substantially constant amplitude and extending the voltage duration to maintain a constant voltage for substantially an entire extent of periodic recycling;

a second power stage for rectifying an output of a secondary winding of the transformer and applying it to a load to be energized, including:

a synchronous rectifier including a first rectifying device with a control gate connected to be responsive to a signal across the secondary winding such that the synchronous rectification device conducts a load current during the periodic recycling when the clamping circuit is active, and

a second rectifying device connected for enabling conduction of the load current when the first rectifying device is nonconducting.

IN THE DRAWINGS

Cancel FIGURE 9.

Remarks

The office draftsman has objected to the drawing page numbering as filed. Appropriate corrections will be made and formal drawings including these corrections will be submitted to the PTO prior to issuance of this application.

The specific reference to the parent application/patent upon which this patent application has been based has been amended to recite the patent number of the issued parent and its issue date. This is believed to meet the requirement specified by the

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